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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/620,510	07/16/2003	Koshi Ando	14804-010001	14804-010001 8481		
26211	7590 02/17/2004		EXAM	EXAMINER		
FISH & RICHARDSON P.C.			TRAN, TAN N			
45 ROCKEFELLER PLAZA, SUITE 2800 NEW YORK, NY 10111		2800	ART UNIT	PAPER NUMBER		
			2826	_		
			DATE MAILED: 02/17/2004	DATE MAILED: 02/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	Application No. Applicant(s)					
		10/620,510		ANDO ET AL.				
	Office Action Summary	Examiner		Art Unit				
		TAN N TRAN		2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - External after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nations of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, he within the statutory will apply and will exp cause the applicatio	owever, may a reply be tim minimum of thirty (30) days re SIX (6) MONTHS from n to become ABANDONEI	nely filed s will be considered time the mailing date of this of (35 U.S.C. § 133).				
1) 🖂	Responsive to communication(s) filed on 16 J	lulv 2003 .						
2a)□		is action is non	-final					
3)	, —			osecution as to th	ne merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
· _	Claim(s) <u>1-20</u> is/are pending in the application							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
			oration.		F			
· · · ·	Claim(s) is/are rejected.							
	Claim(s) is/are objected to.							
·	Claim(s) <u>1-20</u> are subject to restriction and/or e	election require	ment.					
Application Papers								
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
, النظام. Attachmen	-	e priority under	20 0.0.0. 33 120	arrest tell.				
1) Notic	e of References Cited (PTO-892) of Oraftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [5) [6) [Notice of Informal F	(PTO-413) Paper No Patent Application (PT				

DETAILED ACTION

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Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention.

- Claims 1-10, drawn to an on-p-GaAs substrate Zn_{1-x} Mg_x S_ySe1-y pin photodiode as shown in fig. 1.
- II. Claims 11-20, drawn to an on-p-GaAs substrate Zn_{1-x} Mg_x S_ySe1-y avalance photodiode as show in fig. 19.
- 2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct,

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applicant should submit evidence or identify such evidence now of record showing the species to

be obvious variants or clearly admit on the record that this is the case. In either instance, if the

examiner finds one of the inventions unpatentable over the prior art, the evidence or admission

may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

3. Applicant is advised that the response to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37

FR 1.143).

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tan Tran whose telephone number is (703) 305-3362. The

examiner can normally be reached on Monday-Friday 8:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan J. Flynn can be reached on (703) 308-6601. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9318 for regular

communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Jan 2004

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Minhloan Tran Primary Examiner

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